Installation Guide

DAS-MNET Mi-Series Network Interface Card

Overview

The DAS-MNET Mi-Series Network Interface Card **(FG1101-61**) adds networking capabilities to the Matrix Mi-Series Audio Controllers (FIG. 1).

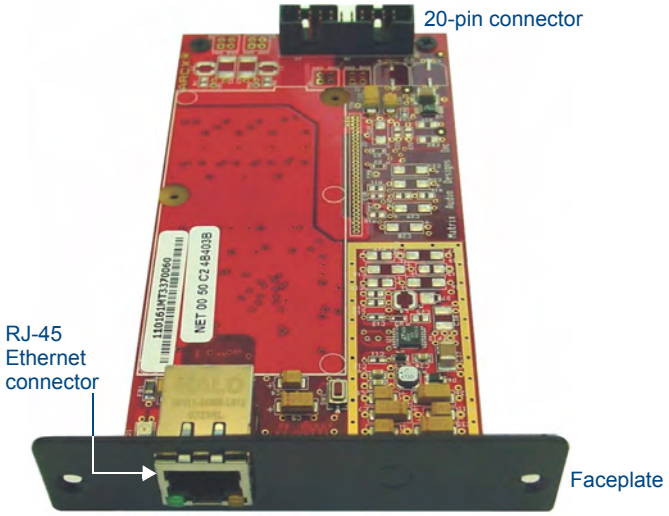

FIG. 1 DAS-MNET Mi-Series Network Interface Card

Compatibility Requirements

The DAS-MNET is compatible with all Matrix Mi-Series Audio Controllers that are using firmware version **7.07 or higher**. Earlier firmware versions do not support the DAS-MNET card.

Connectivity

By default, the DAS-MNET enters DHCP mode, to automatically establish an IP address for the Mi-Series Controller in which the DAS-MNET card is installed. If DHCP is unsuccessful, the DAS-MNET automatically defaults to the following IP Address: **192.168.1.200**, and Subnet: **255.255.255.0**. In this case, you will have to change the IP Address to one that is suitable for your network (see the *Changing the IP Address on the DAS-MNET* section for details).

Installation

The DAS-MNET card is installed in Mi-Series Audio Controllers via the rear panel, as described below.

***WARNING**: Disconnect all power sources before opening the chassis. Failure to disconnect power before performing this installation may cause injury or death.*

***CAUTION**: Make sure to discharge all static electricity from your body before touching any components of the tuner modules or the audio controller. Failure to do so may lead to permanent damage to the tuner or controller.*

1. Remove the cover from the controller. This involves removing all screws from the top and both side of the enclosure, including those in the rack-ear mounts on the sides.
2. With the back of the unit facing you, remove the screws from the “Future Option” cover plate at the left top corner of the rear panel (FIG. 2) and remove the plate. Retain the screws, as they will be used to install the DAS-MNET card.

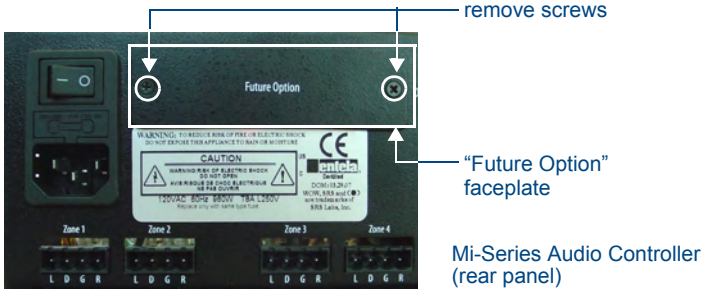

FIG. 2 Rear Panel with “Future Option” cover plate

3. Carefully insert the DAS-MNET card into the controller, with the electronics facing up, and use the screws that attached the “Future Option” cover plate to secure the card to the controller (FIG. 3).

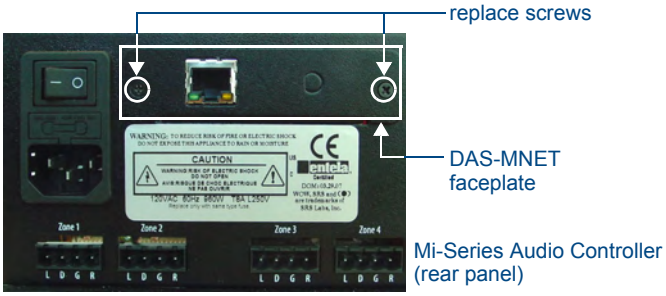

FIG. 3 DAS-MNET Card Installation Location

4. Locate the 20-pin ribbon cable that is connected to the vertical circuit board adjacent to the rear panel connectors (FIG. 4).

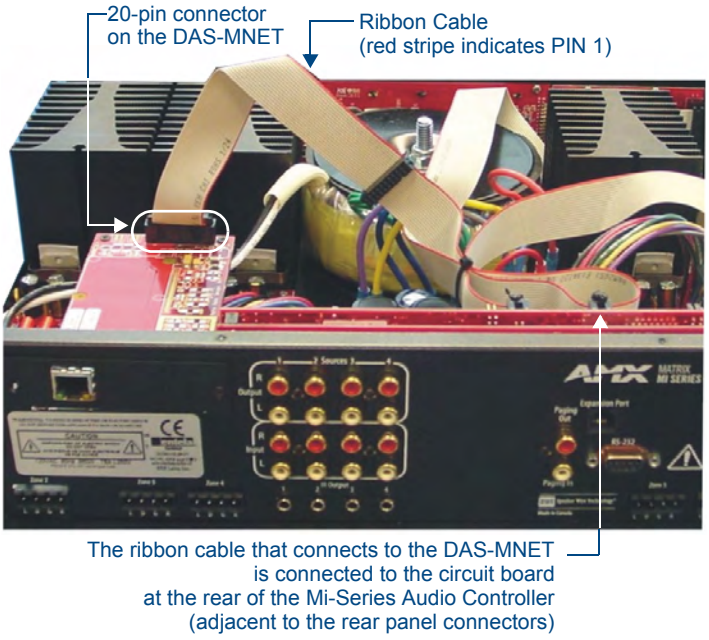

FIG. 4 Connecting the 20-pin ribbon cable from the Mi-Series Controller to the DAS-MNET

***Note**: The ribbon cable is secured within the Mi-Series unit with plastic tie-downs. You may need to remove one or more tie-downs to move the cable and connector close to the connector on the DAS-MNET.*

5. The red stripe on the ribbon cable indicates “Pin 1” on the cable and connector. Orient the ribbon cable so that the side of the cable/connector with red stripe inserts into the connector on the DAS-MNET labelled “Pin 1” (as indicated on the DAS-MNET circuit board, next to the connector - see FIG. 5).

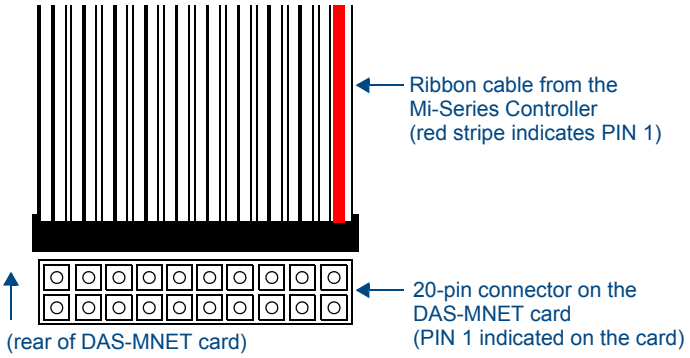

FIG. 5 Pin 1 indicated on the ribbon cable and the connector on the DAS-MNET

6. Carefully connect the ribbon cable to the DAS-MNET.
   ***Note**: When the 20-pin connector on the ribbon cable is positioned properly, it should snap into the connector on the DAS-MNET without undue force. To avoid damage to the ribbon cable and/or DAS-MNET card, do not force the connector into place.*
   Be sure that both ends of the cable are securely plugged into their respective boards through the 20-pin connectors.
7. Replace the unit cover and apply power to the Controller.

Mi-Series LCD Display

Once the DAS-MNET has been installed and power has been applied to the Mi-Series Controller, additional information is available via the LCD display on the front panel of the Mi-Series controller.

To access the DAS-MNET information on the front LCD display:

1. With the AMX logo displayed on the Mi Series LCD display, press the Select button to access the Main Menu.
2. Press the Left arrow button to scroll to the About menu item. Press Select to access the About menu.
3. Press the Left arrow button to scroll to the NIC menu item. Press Select to access the NIC menu, which displays the following information specific to the DAS-MNET card:
   - The version of NIC card firmware currently loaded on the DAS-MNET is indicated in parenthesis, after the phrase “Network Interface Card”.
   - The IP Address currently assigned to the DAS-MNET.
   - DHCP status (Enabled or Disabled).
   - Select “OK” to return to the previous menu.

Ethernet Port and LED Indicators

The Ethernet port on the DAS-MNET uses two LEDs to indicate status and activity, as described below (FIG. 6):

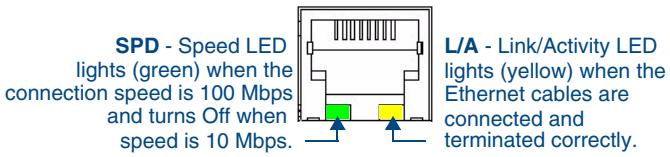

FIG. 6 Ethernet Port LEDs

Ethernet Port

RJ-45 port for 10/100 Mbps communication. The Ethernet Port automatically negotiates the connection speed (10 Mbps or 100 Mbps) and whether to use half duplex or full duplex mode.

Ethernet Link/Activity LEDs

Ethernet Port: RJ-45 port for 10/100 Mbps communication. LEDs show communication activity, connection status, speeds, and mode information:

- SPD (speed) - Green LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- L/A (link/activity) - Yellow LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.

Changing the IP Address on the DAS-MNET

If the DAS-MNET fails to establish an IP Address via DHCP (the default setting), it automatically assigns the following arbitrary IP Address and Subnet:

IP Address = 192.168.1.200
Subnet = 255.255.255.0

In this case, you will have to change the IP Address via the Mi-Control software application (v1.0.3 or higher), available for download from www.amx.com. Download and install the software first, and refer to the online documentation for further details.

***Note**: The Mi-Control software application must reside on a PC that is on the same subnet as the target Mi-Series Controller in order to communicate with the Controller.*

1. Launch the Mi-Control software. The initial view is the Main screen shown in FIG. 7. This screen displays various info specific to the Mi-Series Controller.

FIG. 7 Mi-Control software - Main screen

2. Click the **Select** button to access the *Details* screen (FIG. 8):

FIG. 8 Mi-Control software - Details screen

3. Click the **Advanced** button to access the *Control Configuration* screen (FIG. 9):

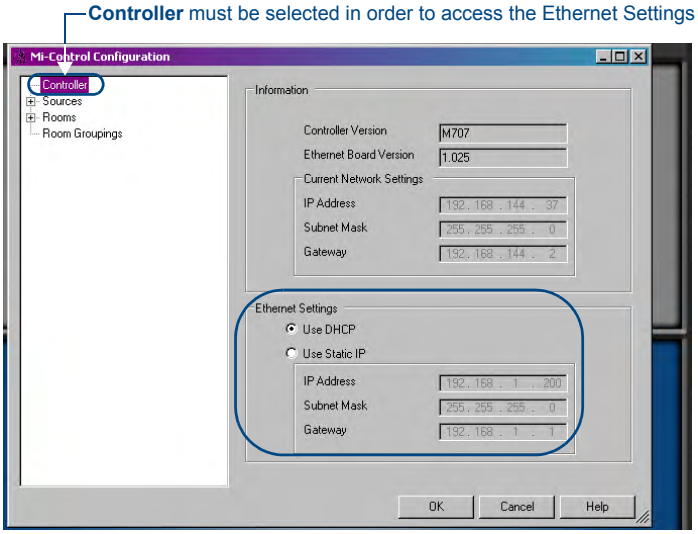

FIG. 9 Mi-Control software - Control Configuration screen

4. Select the **Use Static IP** option to enable the *IP Address*, *Subnet Mask* and *Gateway* fields.
5. Enter the IP Address information as desired and click **OK** to apply your changes.

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